

Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for Sep 19, 2014 Ed Kearns, Chief

		Assess	ment			Deliver	Drafts				Revie	w and Pr	ovide Fee	edback			D	eliver Fin	al Versio	ns		M	isc		Archive			Release		
S t a t u	CDR	PI TM	Assemble IPT	Perform Assess- ment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	feedback on Flow	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metatdata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Make data publicly available	Put data, docs, and code on dev web page	Conduct ORR
1	Ozone - ESRL	Rosenlof Young	х	х	20-May	12-Jun	20-Mar	20-Aug	30-Oct 4-Apr	12-Jun	12-Jun	26-Jun	27-Mar	21-Aug	6-Jan 12-Jun 5-Aug	21-Aug		21-Aug	19-Aug	11-Sep										FY15
2a	SST - WHOI	Clayson Peng	х	21-Feb	12-Dec	3-Apr	20-May	19-Feb	25-Nov	8-Aug	16-Dec	8-Aug	6-Jun		13-Dec	13-Aug														FY15
2b	Ocean Surface Properties	Clayson Peng	х	21-Feb	12-Dec	3-Apr	20-May	19-Feb	25-Nov	8-Aug	16-Dec	8-Aug	6-Jun		13-Dec	13-Aug														FY15
2 c	Ocean Heat Fluxes	Clayson Peng	х	21-Feb	12-Dec	3-Apr	20-May	19-Feb	27-Jun	8-Aug	16-Dec	8-Aug	6-Jun		8-Aug	13-Aug														FY15
3a		Key Young	13-Jun	IP 20-Dec	3-Jun		20-Mar	12-Mar	12 Mar 27 Jun		27-Aug		25-Apr	20-Mar	25-Apr															FY15
3b	Cryosphere (APP-x TCDR)	Key Young	13-Jun	IP 20-Dec	3-Jun		20-Mar	12-Mar	12 Mar 27 Jun		27-Aug		25-Apr	20-Mar	25-Apr															FY15
4a	AVHRR FCDR (5 CHs)	Minnis Young	х	22-Nov		14-Feb	31-Dec 28-Mar	7-Feb	14-Feb	20-Dec 31-Jul		21-Feb	13-Feb 2-Jun	14-Feb	18-Feb	19-Jun					1TB /day						60 TB CLASS			FY15
4b	AVHRR Cloud Properties - NASA	Minnis Young	х	22-Nov		14-Feb	31-Dec 28-Mar	7-Feb	14-Feb	20-Dec 31-Jul		21-Feb	13-Feb 2-Jun	14-Feb	18-Feb	19-Jun					1TB /day						60 TB CLASS			FY15
5	Vegetation (LAI/FAPAR)	Vermote Matthews	х	17-Jan	24-Jun	2-Jul	10-Sep	10-Sep	16-Jul	6-Nov	29-May	9-Jul	17-Sep	11-Sep		8-Nov		1-Nov												FY15
6a	Cloud Top Pressure	Menzel Young	х	31-Jan	1-Oct	5-Aug	15-May	5-Aug	21-Oct 11-Jul 25-Jul		29-Oct	29-Oct	29-Oct 10-Jan		4-Nov 24-Jul						NCDC creating									FY15
6b	Total Precipitable Water	Menzel Young	х	31-Jan	1-Oct	5-Aug	15-May	5-Aug	21-Oct 11-Jul 25-Jul		29-Oct	29-Oct	29-Oct 10-Jan		4-Nov 24-Jul						NCDC creating									FY15
7a	Total Solar Irradiance	Pilewskie Inamdar	х	6-Mar	22-Jan	26-Mar		26-Mar		Approved to Archive	9-May																			FY15
7b	Solar Spectral Irradiance	Lean Inamdar	х	6-Mar	22-Jan	26-Mar		26-Mar		Approved to Archive	9-May																			FY15
8	GPCP Monthly	Adler																												FY15
9	NEXRAD	Nelson Nelson			See	Project	Quad	Chart																						FY15
10	СМОПРН	Xie Prat	х																											FY15
11	ISCCP	Rossow Knapp	х	х	See	Project	Quad	Chart																						FY15
9/19/2014 = Complete = Working = On Hold due to resources PREDECISIONAL DRAFT INFORMATION 2																														

			Assessment		Deliver Drafts				Review and Provide Feedback					Deliver Final Versions					Misc		Archive			Release						
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1	Ozone - ESRL	Rosenlof Young	1)	Final	docun	nents	(C-AT	BD, I	Flow I	Diagr	am a	nd M	M) in	Libra	ry; F	lyer d	lrafte	d; UE	SB p	resen	tatio	n con	nplete	e; wo	rking	ORR (Check	dist		FY15
2a	SST - WHOI	Clayson Peng	2a)	Recei	ved sa	imple	data	for 20	001, c	data l	ooks	good																		FY15
2b	Ocean Surface Properties	Clayson Peng	2b)	Waiti	ng on	final(C-ATB	D and	d a fe	w det	tails d	liscov	ery m	etada	ata															FY15
2c	Ocean Heat Fluxes	Clayson Peng	2c)	Comp	leted	proce	ssing,	teste	ed sft	p, <mark>DS</mark>	RR sc	hedu	led fo	or 10/	'01															FY15
3a	Cryosphere (APP FCDR)	Key Young	3a)	Feedb	ack se	ent or	n meta	adata	12 Mar 27 Jun																					FY15
3b		Key Young	3b)	Revie	wing	both	daft C	-ATB	Ds																					FY15
4a	AVHRR FCDR (5 CHs)	Minnis Young	4a)	SA dra	ift con	nplete	e, revi	ew/c	oordi	natio	n in p	rogre	ess, Pl	will p	oush	up to	1TB/	day to	oftp4	usin	g sftp									FY15
4b	AVHRR Cloud Properties - NASA	Minnis Young	4b)	IR cali	bratio	n issu	ue it t	o diff	icult	(post	pone	d to f	uture	enha	ancei	ment	s and	anno	tated	l in C-	ATBE)								FY15
5	Vegetation (LAI/FAPAR)	Vermote Matthews	5)	PI nee	ds OL	E cod	e fror	n U o	f Mia	mi to	crea	te the	ir dai	ly ope	eratio	onal c	ode;	receiv	ved d	raft C	-ATB	D and	ІММ							FY15
6a	Cloud Top Pressure	Menzel Young	6a)	ATRA	C requ	uest fo	or L1B	PATI	MOS i	input	data	(12.5	ТВ),	Draft	SA s	ubmi	tted f	or rev	view											FY15
6b	Total Precipitable Water	Menzel Young	6b)	Recei	ved sa	mple	data,	it's l	ookin	g goo	d; fin	ial dat	taset	(3 TB	4-Nov 24-Jul															FY15
7a	Total Solar Irradiance	Pilewskie Inamdar	7a)	PI wo	rking	on C-	ATBD	, due	by er	nd of	Sep																			FY15
7b	Solar Spectral Irradiance	Lean Inamdar	7b)	Recei	ved sa	mple	data,	need	ds a lo	ot of v	vork;	ATRA	C rec	luest	comp	olete														FY15
8	GPCP Monthly	Adler	8)	PI bri	efed p	rodu	ct to (SMD	and	RSAD	•																			FY15
9	NEXRAD	Nelson Nelson	9)	See P	roject	Qua	d Chai	t Chart																						FY15
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12	NRT Sea Ice Concentration	Fetterer Peng	X	PI says NO deliverables							_			them to GS		curre	ent fu	unds	to m	odula	rize (existi	ng co	de,				i		FY16
13a	Hydorogical Bundle	Ferraro Nelson																												FY16
13b	AMSU-A FCDR	Ferraro Nelson																												FY16
13c	AMSU-B FCDR	Ferraro Nelson																												FY16
14	Sea Level	Callahan Zhang																												FY16
15	Mean Layer Temperature - NOAA	Zou Semunegus																												FY16
16	Tropospheric Height	Ho Shi																												FY16
17	Surface Albedo	Matthews																												FY17
18	UTH Related FCDR	Lou																												FY17
19	AVHRR + HIRS Cloud TCDR	Heidinger Knapp																												FY17
20	ISCCP Enery Budget	Zhang																												FY17
21a	GPCP Daily	Adler																												FY17
21b	GPCP Pentad	Adler																												FY17
22	Ozone	Long																												FY17
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	CDRP Open Change Requests														
Name of CDR	ame of CDR C-ATBD		Maturi ty Matrix	VDD	Source Code	NetCDF sample	Dataset	t to	Approv ed for Archive	SA	DSRR				
Geostationary IR Channel Brightness Temperature - GridSat B1	Returned to PI with edits	Needed, TBD	Needed, TBD	N/A	٧	٧	٧	٧	٧	٧	Aug-13				
Sea Surface Temperature - Pathfinder	Returned to PI with edits	No change	No change	٧	٧	٧	Having QA issues, will not be delivered until end of CY 2014	٧	٧	Needed TBD	Needed, TBD				
Mean Layer Temperature - UAH	31-Jul	31-Jul	N/A	Needed, TBD	10-Aug	10-Aug	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD				

SSMI(S) – RSS: PI submitted suggested metadata updates, routed CR for approval (Hilawe, Ken, and Tom have to approve changes before it goes to the CCB)

Other: Discuss status of Use Agreement new wording

1/14/2011

GST FY14 Subcontracts

PΙ	CDRs	Start Date	End Date	WA Complete	Sent to Instituti on for Review	contract in place
Christy	Mean Layer Temperature - UAH	15-Sep-14	31-Mar-15	٧	٧	٧
Но	- Mean Layer Temperature - UCAR (Lower Stratosphere)- Mean Layer Temperature - UCAR (Troposphere and Stratosphere)- Tropopause Height Climatology	17-Sep-14	31-Mar-15	٧	٧	
Robinson	Snow Cover Extent (Northern Hemisphere)	11-Sep-14	31-Mar-15	٧	٧	٧
Sorooshian	Precipitation - PERSIANN-CDR	1-Aug-14	31-Mar-15	٧	٧	٧
Zhang	ISCCP Radiation Budget	1-Aug-14	31-Mar-15	٧	٧	٧
Wentz	SSMI(S) Brightness Temperature - RSS	14-Sep-14	31-Mar-15	٧	٧	٧
Mears	Mean Layer Temperature - RSS	14-Sep-14	31-Mar-15	٧	٧	٧



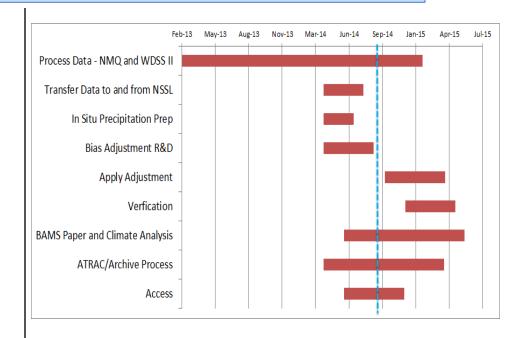
CDR Program Office NOAA NEXRAD Reanalysis

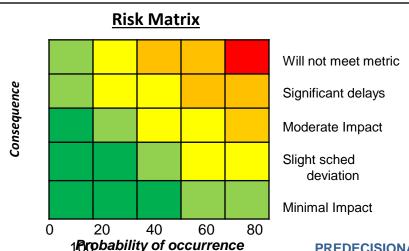
Project Manager: B. Nelson

Weekly Report

NNR - NOAA NEXRAD Reanalysis

- Assessment of Bias at Hourly for 2 months (4 years)
- Assessment of Bias at Daily scale for 4 years (2008 2011)
- Gauge radar merging for one year (2011)
- 2005 radar only processed
 Level II data for 2003 is being transferred.
 Level II data for 2005 is being transferred.
- Ordered Level II data for 2012, 2005, 2003
- Processed 4 yrs of data for COOP-NNReanalysis data.
- Obtained COOP, HADS, and CRN data and process gauge –radar pairs for analysis.





On-track

Risk and Mitigation

No Risk at this time

PREDECISIONAL DRAFT INFORMATION



= Management attention required



ISCCP Processing @ NCDC

Project Manager: A. Young/K. Knapp

Weekly Status Update

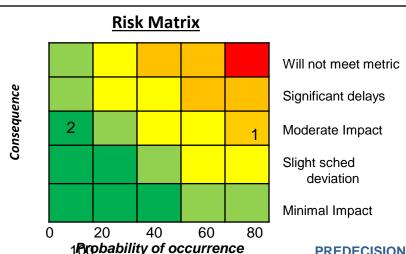
- Continuing to pre-process data.
- Ordering replacement data from EUMETSAT
- Sent beta data to users for feedback.
- Preparing ancillary calibration data for processing.
- Working on ISCCP Website for NCDC
- Preparing data for Beta users (preliminary output)
- Prepared space and scripts for ISCCP processing on CICS server.
- Received pre-processing software to QC input files (GEO/B1 & LEO/AVHRR)

Objectives

Produce ISCCP cloud products at NCDC following IOC R2O procedures. Plan for routine updates to follow.

Schedule

Start Date 1983? 2003? 2013?
Begin processing September 2014
End processing December 2014
QC & Analysis Jan-Feb 2015
Archive March 2015
Routine updates start June 2015



Risk and Mitigation

- Delivery of software late and other delays. Raised level to moderate impact. Processing will likely start 1 month late. Impact upon completion isn't yet clear.
- 2. CICS server space

PREDECISIONAL DRAFT INFORMATION



: On-track

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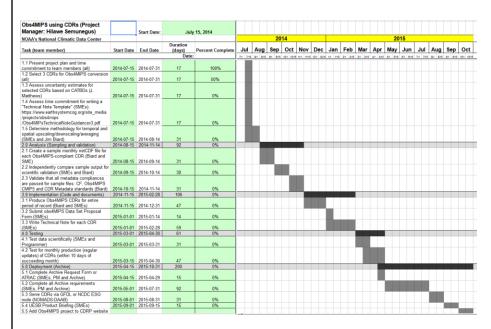
Obs4MIPS

Project Manager: H. Semunegus

Weekly Status Update

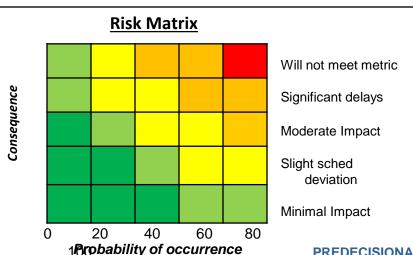
- J. Baird prototyped a conversion utility.
- Scoping out a potential third dataset for initial transition.
- Test data was converted to Obs4MIPS format.
- Planning meeting completed and schedule revised.
- Initial datasets selected for Obs4MIPS: OISST and OLR
- Lots of emails and investigations ongoing.
- Many CDRs can't work in Obs4MIPS: all FCDRs and all Mean Layer Temperatures aren't fit for this purpose.
- Kickoff meeting held 7/18
- Initial plans developed.

Initial datasets: Daily OLR, OISST, Sea Ice



Risk and Mitigation





TBD

PREDECISIONAL DRAFT INFORMATION

: On-track

= Potential management action required



= Management attention required



UW HIRS Processing @ NCDC

Project Manager: A. Young

Weekly Status Update

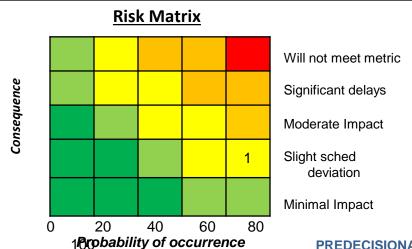
- Found space to temporarily store 10 TB of 10 yrs of product.
- Waiting for final code delivery from Wisconsin.
- Preparing plan for processing on CICS server.
- Working on finding space for the 10TB of input data (pixel level cloud data).

Objectives

Produce global total precipitable water and cloud top pressure estimates from HIRS data using the UW algorithm (P. Menzel).

Schedule

Start Date TBDEnd Date TBD



On-track

Risk and Mitigation

1. Programmer was assigned to another task. Impact: Schedule may slip.



CDR Program Office Albedo of the Americas

Project Manager: J. Matthews

Weekly Status Update

- Continued validation via collaboration with SAMSI (at NCSU).
- Loaned 42 TB of disk space allocation to ISCCP Project

Objectives

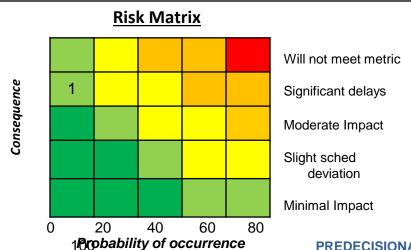
Produce a daily land surface albedo product over North and South America from GOES-GVAR observations for 1995-2014.

Schedule

- Start Date
- End Date

January 2015

June 2016



Risk and Mitigation

- 1. Loaned disk space is not returned
 - * Could cause delays. Unlikely since more disk space is planned.

PREDECISIONAL DRAFT INFORMATION



= Potential management action required



= Management attention required



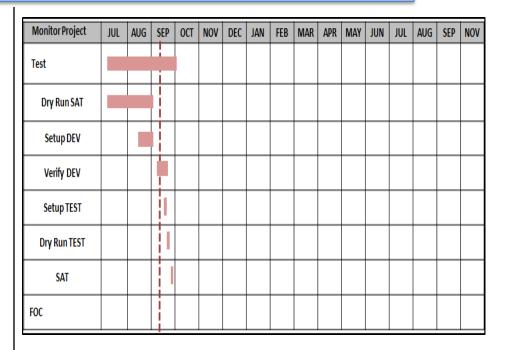
OISST Rejuvenation Project

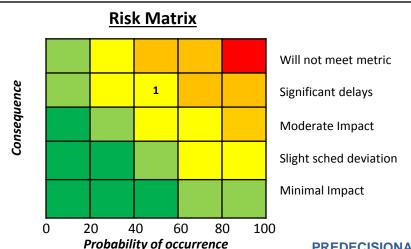
Team Lead:
Drew Saunders

Weekly Report - Sep 19, 2014

1 ISST - Optimum Interpolated Sea Surface Temperature

- Verified preliminary test run.
- Verifying results of final product test runs.
- DEV container is created and working to verify environment.
- Updating Project Plan with FOC estimates.
- Performing dry runs for the System Acceptance Test (SAT).
- Draft OISST Transition to Operations Project Plan.
- Successfully completed 30 day parallel test.
- Comparing NCDC GTS with NCEP ship/buoy data for use. GCAD is resolving issues but requires new operational code.
- AVHRR data for the 15 day delay product is available from CLASS.
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Completed refactoring of each component.
- · Conducted Technology Assessment Review.





On-track

Risk and Mitigation

1 Time to progress through the three tier environment. ITB support is required.



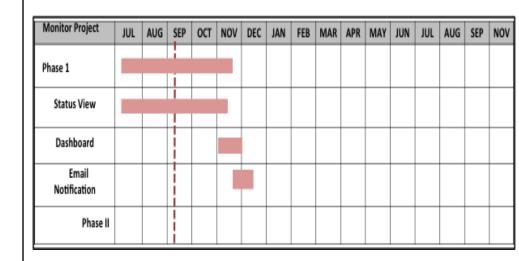
Ingest Monitoring Tool

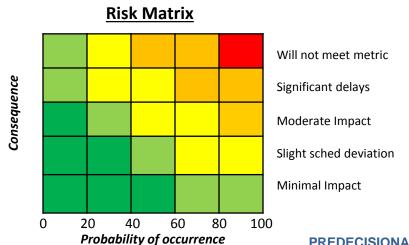
Team Lead: Linda Copley

Weekly Report - September 19, 2014

1 Operations Monitoring Tool development

- · Recommend delay until until October 1.
- Designing module to collect status data from iRODS.
- · Working on database design.
- Defined requirements for Phase 1 of the project.
- Phase 1 implements basic functionality.
- Additional datasets can be added in later phases.
- Updated the monitoring project plan.
- Monitoring of operational ingest.





On-track

Risk and Mitigation



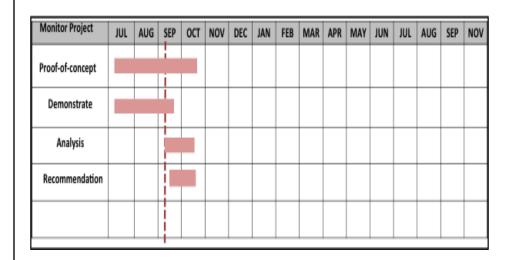
Federated Archive Search Tool (FAST)

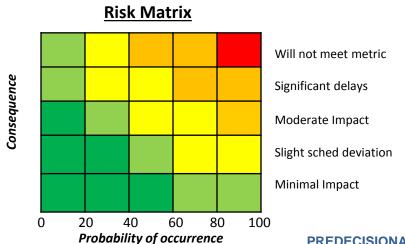
Team Lead: Linda Copley

Weekly Report - September 19, 2014

1 Federated Archive Search Tool proof-of-concept

- Significant progress on application to demonstrate query capabilities.
- Connected all data to geographic and date references.
- · Designed and loaded VIIRS catalog graph data.
- Designed and loaded Storm Events graph data.
- Loaded FIPS geographic data.
- Installed Neo4j graph database with spatial extension.





: On-track

Risk and Mitigation



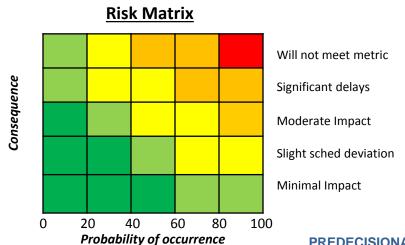
Reprocessing VIIRS SDRs

Team Lead: Jim Biard

Weekly Report – September 19, 2014

1 Reprocessing VIIRS SDRs

- Defined schedule estimates for project.
- Will create a schedule. Approximately 90 day/FTE.
- Present to Stewardship Council for information.
- Talking with STAR scientists (Changyong Cao, etc) to identify parrallelization capability of VIIRS algorithms.
- Developed draft white paper to identify issues and scope.
- Have identified parts of the algorithm that need to 'conditioned' during runtime and will affect reprocessing estimates.
- Discussed scope and goals of the project with CDRP scientist.



On-track

Risk and Mitigation